Atty. Dkt. No. 039153-5002 (G0166)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-11. (Cancelled)

- 12. (Original) A fuse for an integrated circuit, the fuse comprising a material capable of existing in a first phase or a second phase in response to at least one of a current signal and a voltage signal, the fuse having a different resistance in the first phase than in the second phase.
- 13. (Original) The fuse of claim 12, wherein the fuse further comprises a layer of material including silicon and a silicide layer.
- 14. (Currently Amended) The fuse of claim 12, wherein the silicide includes nickle nickel.
- 15. (Original) The fuse of claim 12, wherein first phase includes mononickel silicide and the second phase includes nickel disilicide.
- 16. (Original) An integrated circuit comprising:

 a polysilicon layer disposed above an insulative structure; and
 a silicide layer disposed above the polysilicon layer, the silicide layer being a first
 type and being convertible to a silicide layer of a second type in response to a signal, wherein a
 resistance of the silicide layer changes when the silicide layer is converted from the first type to
 the second type.
- 17. (Original) The integrated circuit of claim 15, wherein the silicide layer of the first type is mononickel silicide.

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- 18. (Original) The integrated circuit of claim 16, wherein the silicide layer of the second type is nickel disilicide.
- 19. (Original) The integrated circuit of claim 17, wherein the insulative structure is a field oxide or an insulative layer.

20-21. (Cancelled)

22. (New) A fuse comprises:

means for having a first phase and a second phase, the first phase having a different resistivity than the second phase; and

means for receiving a current and changing the means for having from the first phase to the second phase with the current.

- 23. (New) The fuse of claim 22, wherein the second phase is a relatively higher resistance than the first phase.
 - 24. (New) The fuse of claim 23, wherein the current is a programming current.
- 25. (New) The fuse of claim 24, wherein the means for having is a material having a first sheet resistance in the second phase of at least two times of a second sheet resistance in the second phase.
- 26. (New) The fuse of claim 25, the first sheet resistance is at least 8 times the second sheet resistance.
- 27. (New) The fuse claim 25, wherein the first sheet resistance is approximately 10 times the second sheet resistance.
- 28. (New) The fuse of claim 22, wherein the means for having is a material including nickel.
 - 29. (New) The fuse of claim 28, wherein the material is a silicide.

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- 30. (New) The fuse of claim 28, wherein first phase includes mononickel silicide and the second phase includes nickel disilicide.
- 31. (New) The fuse of claim 30, wherein the first phase has a sheet resistance between 1-5 ohms per square.
- 32. (New) The fuse of claim 31, wherein the second phase has a sheet resistance between 10 and 40 ohms per square.
 - 33. (New) A fuse for an integrated circuit, the fuse comprising:a silicide layer; and

a layer including silicon, the layer including silicon being above a bulk silicon substrate or a field oxide structure and below the silicide layer, wherein the silicide layer is configured in a fuse pattern, wherein the silicide layer is in a first phase, the first phase being convertible to a second phase, the first phase having a different resistance characteristic than the second phase.

34. (New) The fuse of claim 33 further comprising: conductive vias at a first end and a second end of the fuse pattern.